## What is claimed is:

- A data routing apparatus comprising:
- a network interface configurable to receive data packets;
  - a processor coupled with the network interface; and
- a memory coupled with the processor, the memory being configured to instruct the processor to load a routing data structure configured to store information selectively indicating either a next-hop address for a received data packet or that the received data packet is to be dropped.
- 2. The apparatus of claim 1, wherein the routing data structure comprises one or more routing tables.
- 3. The apparatus of claim 2, wherein the information indicating that the received data packet is to be dropped comprises a predetermined value.
- 4. The apparatus of claim 2, wherein the information indicating that the received data packet is to be dropped comprises a pointer to a route entry containing a drop flag.
- 5. The apparatus of claim 1, wherein the stored information comprises a portion of an address field.
- 6. The apparatus of claim 5, wherein the address field portion comprises a network identifier.

- 7. The apparatus of claim 1, wherein the data packet is an Internet Protocol packet and the stored information comprises a deprecated directed broadcast address.
- 8. A method of configuring a data routing device comprising storing information in a routing data structure, wherein the information selectively indicates that a packet having a destination address is to be routed or dropped.
- 9. The method of claim 8, wherein the routing data structure comprises one or more routing tables.
- 10. The method of claim 9, wherein the information is a pointer to a routing record containing a drop-flag.
- 11. The method of claim 8, wherein a format for the destination address is defined by Internet Protocol version four.
- 12. The method of claim 11, wherein the destination address comprises a deprecated directed broadcast address.
- 13. A method comprising providing a capability for a machine to perform operations including:

comparing a destination address of a packet with routing information stored in a routing data structure, the routing information indicating that the packet either is to be routed or dropped; and

selectively routing the packet based on the routing information stored in the routing data structure.

- 14. The method of claim 13, wherein providing a capability for a machine to perform operations comprises providing one or more software processes capable of performing the operations on a computer system.
- 15. The method of claim 13, wherein a format for the destination address is defined by Internet Protocol version four.
- 16. The method of claim 15, wherein the destination address comprises a deprecated directed broadcast address.
- 17. The method of claim 13, wherein the operations further include:

counting a dropped packet; and

storing a source address and the destination address for the dropped packet.

18. A packet routing system comprising:

memory means for storing a data structure comprising a destination address routing table having entries, wherein at least one entry contains an indication that a packet having a destination address that resolves to the least one entry is to be dropped; and

processing means for receiving a packet having a destination address from a first network, for checking the destination address against the destination address routing table, and for transmitting the received packet to a second network only if the received packet does not resolve to the at least one entry.

- 19. The system of claim 18, wherein the destination address routing table comprises a set of tables.
- 20. The system of claim 19, wherein the processing means checks the destination address four bits at a time.
- 21. The system of claim 20, wherein the processing means transmits using Internet Protocol.
- 22. The system of claim 21, wherein the at least one entry corresponds to a deprecated directed broadcast address.
- 23. Machine-readable instructions, embodied in a machine-readable medium or a propagated signal, for causing a machine to perform operations comprising loading one or more routing tables with destination addresses and information selectively indicating either a next-hop address for a packet or that the packet is to be dropped.
  - 24. The instructions of claim 23, wherein the

information comprises:

a pointer to a route entry to indicate a next-hop address; and

a value of negative one to indicate the packet is to be dropped.

- 25. The instructions of claim 23, wherein the destination address comprises a network identifier.
- 26. The instructions of claim 25, wherein the network identifier identifies a subnet.
- 27. The instructions of claim 26, wherein the packet is an Internet Protocol packet.
- 28. The instructions of claim 27, wherein the destination address comprises a deprecated directed broadcast address.
- 29. The instructions of claim 28, further comprising loading the one or more routing tables with a plurality of deprecated directed broadcast addresses, one for each of a plurality of subnets, and information indicating that a packet having one of the plurality of deprecated directed broadcast addresses as its destination is to be dropped.